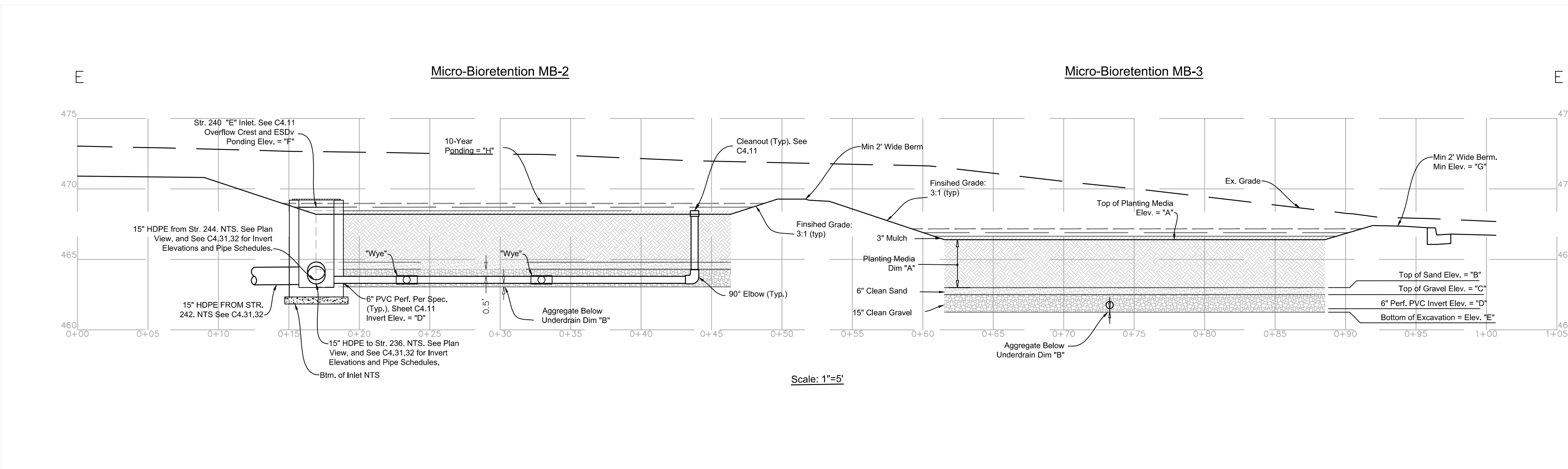


Micro-Bioretentation Detailed Plan View MB-2

Micro-Bioretentation Detailed Plan View MB-3

MB-2
Total Perforated Underdrain Length: 46 FT

MB-3
Total Perforated Underdrain Length: 51 FT



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR MICRO BIOTRETENTION FACILITY		MB-2		MB-3	
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER	MCDPS INSPECTOR	OWNER/ DEVELOPER
INITIALS/DATE		INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 311). The DPS Inspector may waive an inspection and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. <u>Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead.</u> Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.					
1. Excavation for Micro Bioretention facility conforms to approved plans					
2. Placement of stone backfill and underdrain system conforms to approved plans					
3. Placement of filter media conforms to approved plans					
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans					
5. Final grading and permanent stabilization conforms to approved plans					

Design Engineer SWM Construction Observation Requirements

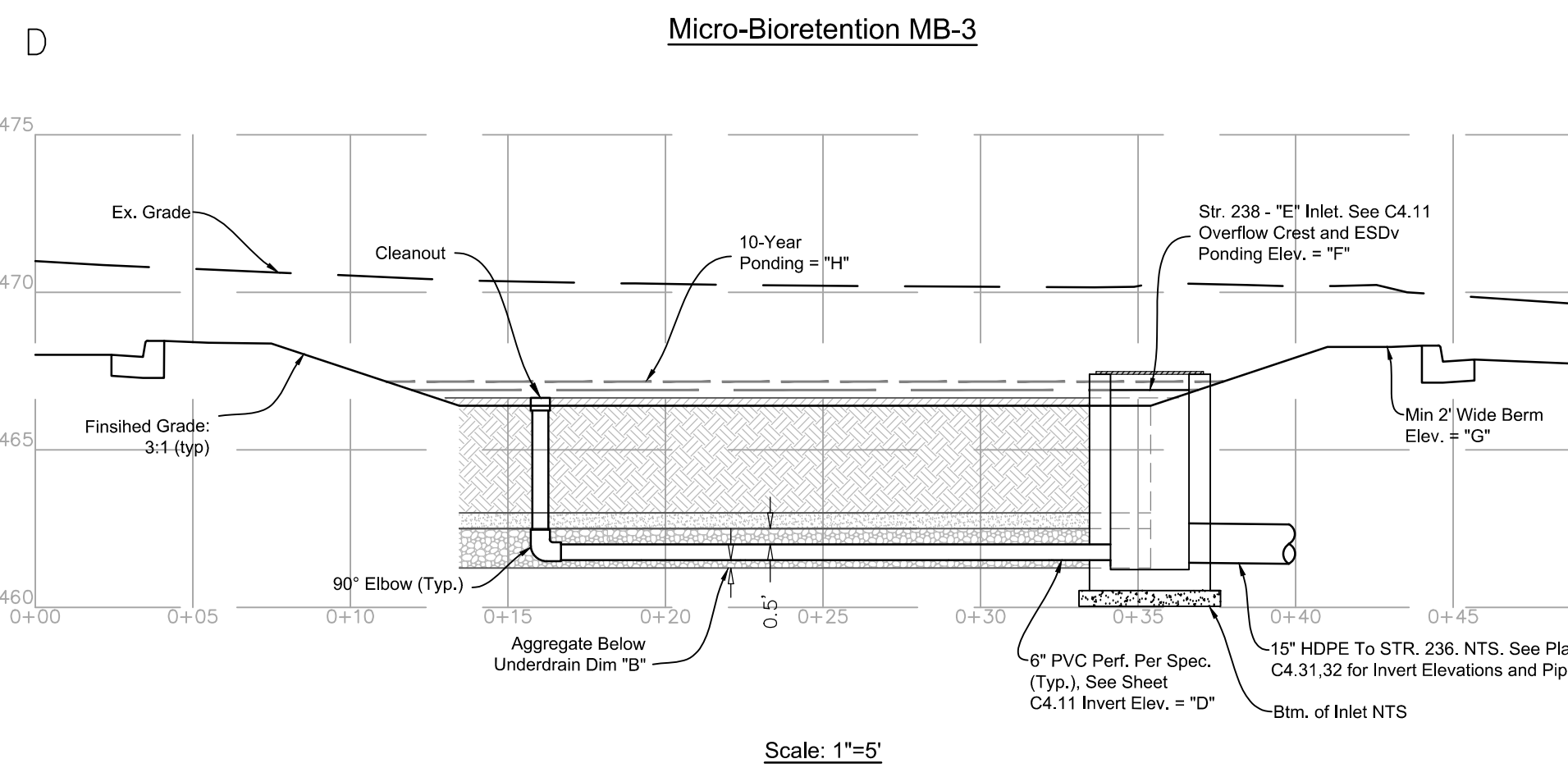
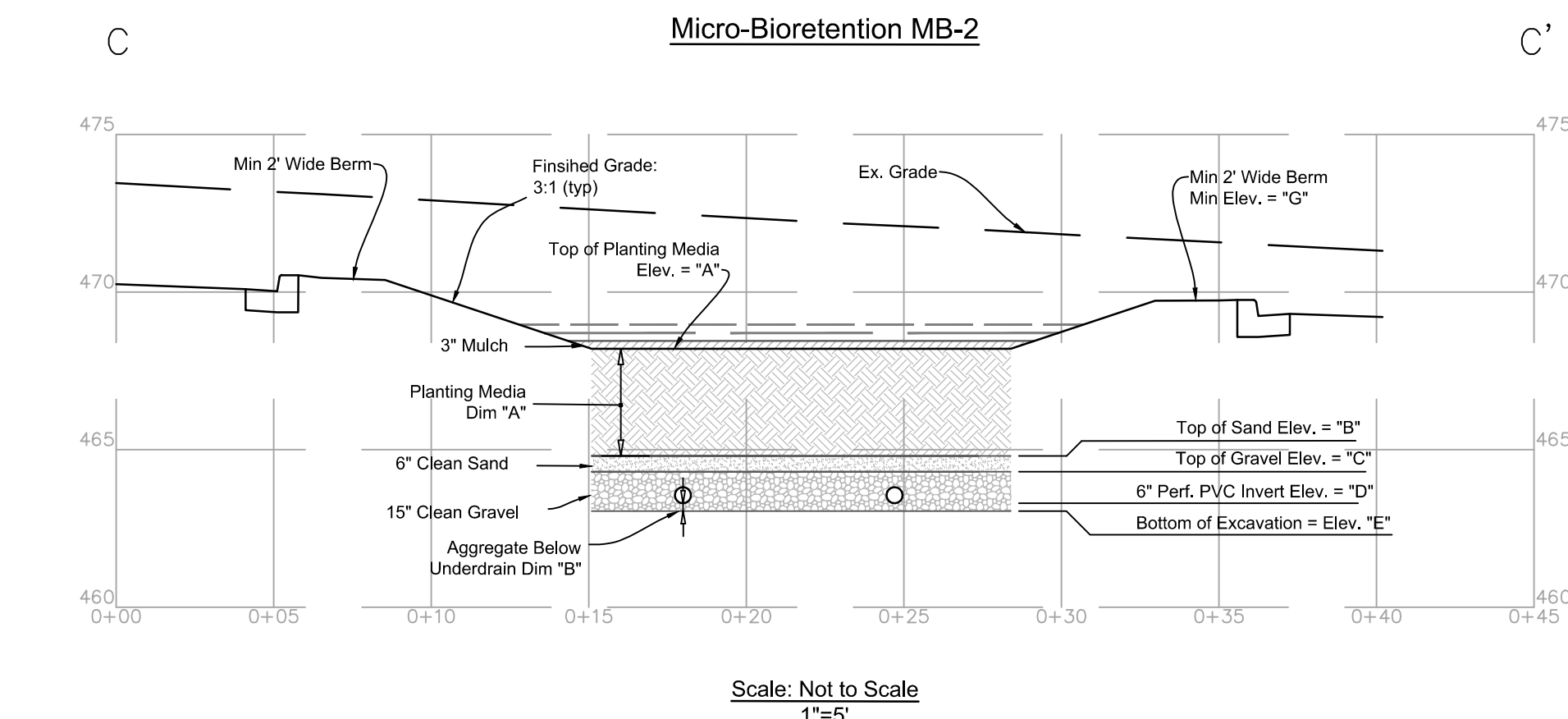
The contractor is required to contact the Design Engineer at (301) 670-0840 with at least 24 hours advance notice at the following stages of Micro-Bioretentation (MB), Micro-Bioretentation w/ Impervious Liner (MB(L)), Planter Box Micro-Bioretentation (PB), and/or Bio-Swale (BS) facility construction:

- Facility excavation: MB, MB(L), BS
- Concrete slab and wall form work: PB
- Installation of impervious liner: MB(L)
- Aggregate installation
- Underdrain layout and installation
- Sand layer installation
- Planting media installation
- SWM plantings and landscaping installation

Failure to notify the Design Engineer may necessitate SWM facility reconstruction.

BIORETENTION FACILITY MAINTENANCE SCHEDULE	
TASK	RECOMMENDED INTERVAL
INSPECT AND REPAIR SOIL EROSION	MONTHLY AND AFTER HEAVY RAINS
REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER	MINIMUM 2 TIMES PER YEAR (SPRING AND FALL)
INSPECT PLANTS FOR DAMAGE & DISEASE/PEST PROBLEMS PRUNE AND TREAT PLANTS AS NEEDED & AS APPROPRIATE PER SPECIES. REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT	MINIMUM 2 TIMES PER YEAR (3/15-4/30 and 10/1-11/30)

SEE C4.11 FOR:
1. REQUIRED AGGREGATE GRADATION
2. SAND SPECIFICATIONS
3. BIORETENTION AREA PLANTING SOIL DOCUMENTATION REQUIREMENTS
4. MICRO-BIORETENTION AREA SPECIFICATIONS



Micro-Bioretentation Facility MB-2 and MB-3 Design Information			
ID	Descriptor	Facility MB-2	Facility MB-3
Elev. "A"	Top of Planting Media	Design 468.20'	Design 468.40'
	As-Built	468.20'	468.40'
Elev. "B"	Top of Sand	Design 468.20'	Design 462.90'
	As-Built	468.20'	462.90'
Elev. "C"	Top of Gravel	Design 464.20'	Design 462.40'
	As-Built	464.20'	462.40'
Elev. "D"	PVC Underdrain Invert	Design 463.20'	Design 461.40'
	As-Built	463.20'	461.40'
Elev. "E"	Bottom of Excavation	Design 462.95'	Design 461.15'
	As-Built	462.95'	461.15'
Elev. "F"	Overflow & ESDv Ponding Elev.	Design 468.70'	Design 466.90'
	As-Built	468.70'	466.90'
Elev. "G"	Min. Top of Berm	Design 469.20'	Design 467.40'
	As-Built	469.20'	467.40'
Elev. "H"	10-Year Ponding Elev.	Design 468.83'	Design 467.07'
	As-Built	468.83'	467.07'
Dim. "A"	Planting Media Thickness	Design 3.50'	Design 3.50'
	As-Built	3.50'	3.50'
Dim. "B"	Aggregate Below Underdrain	Design 0.25'	Design 0.20'
	As-Built	0.25'	0.20'
Facility Surface Area		Design 351 sq. ft.	Design 589 sq. ft.
ESDv Provided		Design 715 cu. ft.	Design 1,269 cu. ft.
Receiving Storm Drain Str.		Design 240	Design 238
*See Detailed Plan Views & Details for More Dimensions.			

NOTE: Contractor shall confirm that dimensions, inflow locations, roof leader locations and other design elements of ALL ESD/SWM facilities as shown on these plans are coordinated with architectural and other trade plans. If any discrepancies are found, the Contractor is to contact the design engineer and architect prior to proceeding with construction. Site utilities are to be constructed in locations shown. If a utility location is changed and is found to conflict with a ESD/SWM facility, the facility must be reviewed and approved by the County, Design Engineer, Architect and appropriate trade prior to utility construction. Modifications to the Stormwater Management Plan will require a formal revision to the plan with the Montgomery County Department of Permitting Services, which will include applicable plan revision fees, and may not be acceptable.

SM#285890

SC010MB2MB3

SC#286335

SWM MB-2, MB-3 PLAN VIEW AND DETAILS

ARCHITECT



9211 CORPORATE BLVD, SUITE 340
ROCKVILLE, MD 20860
301-770-8177(P) 301-338-3224(F)

CIVIL

MACRIS, HENDRICKS &
GLASCOCK
9220 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886
301-670-0840(P)

STRUCTURAL
COMPREHENSIVE
STRUCTURAL SOLUTIONS
9220 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886
240-200-5599(P)

MECH/ELECTRICAL/PLUMBING
JAMES POSEY ASSOCIATES

11155 RED RUN BLVD, SUITE 310
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410-265-6100(P)

KITCHEN

NYIKOS-GARCIA
FOODSERVICE DESIGN, INC
18219-A FLOWER HILL WAY
GAITHERSBURG, MD 20879
240-683-9530 (P)

SUSTAINABILITY

DOO CONSULTING, LLC

531 PICCADILLY ROAD

BALTIMORE, MD 21204

443-653-3792 (P)

CONSTRUCTION MANAGER
SKANSKA USA BUILDING INC.

700 KING FARM BLVD, SUITE 200
ROCKVILLE, MD 20850
301-795-3100 (P)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No.: 16905, Expiration Date: 4.21.2022.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	BID DOCUMENTS	10/21/2020
2	ADDENDUM #2	11/25/2020
3	ADDENDUM #3	12/01/2020
4	ADDENDUM #4	12/03/2020

TAX MAP FTR2
PLAT 12762
9TH ELECTION DISTRICT
CITY OF GAITHERSBURG, MD

GAITHERSBURG
CLUSTER
ELEMENTARY
SCHOOL #8

MONTGOMERY
COUNTY PUBLIC
SCHOOLS

SHEET TITLE:
SOIL EROSION,
SEDIMENT CONTROL
AND STORMWATER
MANAGEMENT PLAN

PROJECT NO:
19007

DATE:
12/04/20

SCALE:
1"=30'

SHEET NO:

C4.04

Sheet 10 of 28